FRAME OUTPUT PENTODE

Pentode intended for use as frame output amplifier in colour television receivers.

QUICK REFERENCE DATA					
Cathode current, average	I_k	max.	100	mA	
Anode dissipation	w_a	max.	12	W	

HEATING: Indirect by A.C. or D.C.; series supply

Heater current

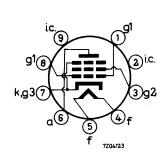
 I_f 300 mA 17

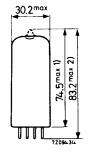
Heater voltage

Dimensions in mm

DIMENSIONS AND CONNECTIONS

Base: Magnoval





CAPACITANCES

Anode to grid No. 1 Grid No. 1 to heater

max. 1.6 pF C_{ag_1} C_{g_1f} max. 0.2 pF

¹⁾ Max. 71.4

for execution with pumping stem on base side. 2) Max. 80.1

TYPICAL CHARACTERISTICS

(Measured under pulse conditions)

Anode voltage	v_a		50	v _a	190	V
Grid No.2 voltage	v_{g_2}		190	V _{g2}	190	V
Grid No.1 voltage	v_{gl}		-1	v_{g_1}	-17	V
Anode current	I_{a_p}		320	la	60	m A
Grid No.2 current	I_{g_2}	approx.	60	I_{g_2}	5	m A
Transconductance				S	9	mA/V
Amplification factor				$\mu_{ m g2gl}$	8	-

Remarks.

The minimum $\rm I_a$ to be expected as a result of spread of the tube characteristics tube deterioration during life and decrease of the mains voltage to 10 % below the nominal value can be derived from the curves on page B by decreasing by 40 % the $\rm I_a$ values situated on the curve A-B at V $_{g_2}$ occurring at the decreased mains voltage.

In order not to exceed the maximum permissible value of W_{g2} , the circuit should be designed in such a way that the anode voltage should never be lower than the value determined by curve A-B at the relevant V_{g2} value.

OPERATING CHARACTERISTICS (end of scan values)

Anode voltage	v_a	70	V
Grid No.2 voltage	v_{g_2}	200	V
Grid No.1 voltage	v_{g_1}	-5	V
Anode peak current	I_{a_D}	230	mA

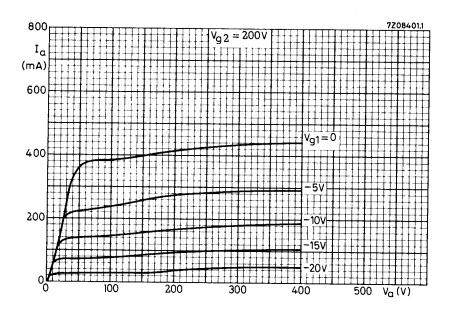
LIMITING VALUES (design centre rating system) unless otherwise stated

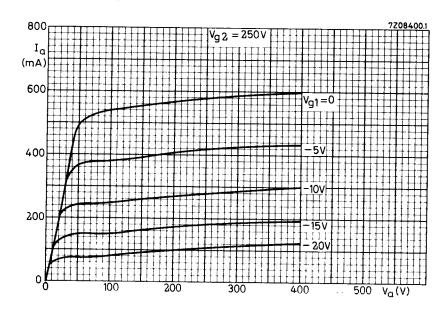
Anode voltage	v_{a_0}	max.	700	V	
	v_a	max.	400	V	
Anode peak voltage	v_{a_p}	max.	2.5	kV	1)
Grid No.2 voltage	$v_{g_{20}}$	max.	700	V	
	v_{g_2}	max.	275	V	
Anode dissipation	w_a	max.	12	W	
Grid No.2 dissipation	w_{g_2}	max.	3	W	
design max.	w_{g2}	max.	4	W	
Cathode current	I_k	max.	100	m A	
Grid No.1 resistor, fixed bias	R_{g_1}	max.	1	$M\Omega$	
automatic bias	R_{g_l}	max.	2.2	МΩ	
Cathode to heater voltage	v_{kf}	max.	22 0	V	

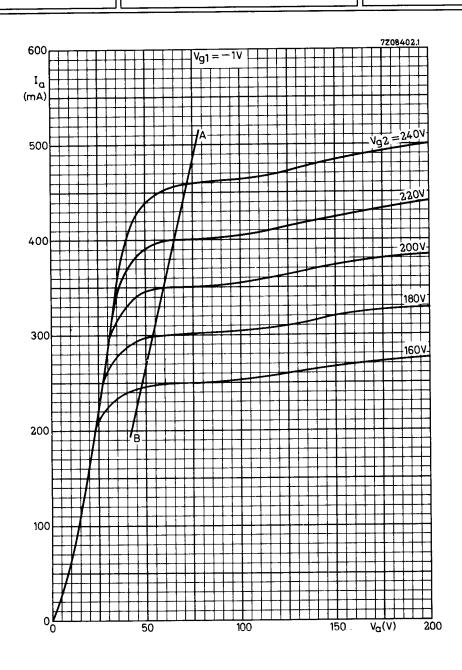
MICROPHONY

The maximum peak accelaration to which the tube may be subjected under the most unfavourable conditions is 1.5 g at frequencies < 600~Hz. and 0.2 g at frequencies > 600~Hz. The equivalent interferance voltage at grid No.1 will than be < 25~mV.

¹⁾ Max. pulse duration 5% of a cycle and max. 1 ms.









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